ZHIRNOV, N.I., kand.tekhn.nauk; KROL', L.B., kand.tekhn.nauk; LIVSHITS,
E.M., inzh.; RABKIN, Yu.I., inzh.

Peak-load boilers used in district heating systems. Energetik
8 no.6:28-34 Je '60.
(MIRA 13:7)
(Boilers)

LIVSHITS, E.M., inzh.; ITMAN, D.L., inzh.

Design of tubular air preheaters for steam boilers.
Elek.sta. 31 no.5:12-17 My '60. (MIRA 13:8)
(Boilers--Air preheating)
(Air preheaters)

LIVSHITS, E.M., inzh.; ITMAN, D.L., inzh.; PATYCHENKO, V.S., inzh.

Ways to reduce the size of boiler units. Teploenergetika 8
no.8:14-20 Ag '61. (MIRA 14:10)
(Boilers)

LIVSHITS, E.M., inzh.; RABKIN, Yu.I., inzh.

Efficient construction of steam supply lines for units with supercritical parameters. Elek. sta. 32 no.7:17-20 Jl '61. (MIRA 14:10)

(Steampipes)

RUSINOV, Mikhail Mikhaylovich; LIVSHITS, E.M., red.; VASIL'YEVA, V.I., red.izd-va; ROMANOVA, V.V., tekhn. red.

[Photogrammetric optics] Fotogrammetricheskaia optika. Moskva, Geodezizdat, 1962. 214 p. (MIRA 15:7)

(Photogrammetry)

LIVSHITS, Emmanuil Markovich; TSAR'KOV, Arkadiy Grigor'yevich; MORDVINOVA, N.P., inzh., ved. red.; SOSNOVSKIY, A.A., inzh., red.; SOROKINA, T.M., tekhn. red.

[Universal stereophotogrammetric unit]Universal'naia stereofotogrammetricheskaia ustanovka. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 14 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 37. No. P-58-19/2) (MIRA 16:3)

(Photogrammetry--Equipment and supplies)

ZHIRNOV, Nikolay Ivanovich; KROL', Lazar' Borisovich; LIVSHITS,
Emmanuil Moiseyevich; RABKIN, Yuriy Isaakovich;
RADZYUKEVICH, Ye.I., red.; BORUNOV, N.I., tekhn. red.

[Large peak load water-heating boilers] Pikovye vodogreinye kotly bol'shoi moshchnosti. Moskva, Izd-vo "Energiia," 1964. 167 p. (MIRA 17:4)

LIVSHITS, E.M. (Khar'kov)

Asymptotic formula for the number of classes of isomorphic autonomous automata with n states. Ukr. mat. zhur. 16 no.2:245-246 '64. (MIRA 17:3)

LYUBICH, Yu.I.; LIVSHITS, E.M.

Estimating the weight of a regular event over a one-letter alphabet.
Sib. mat. zhur. 6 no.1:122-126 Ja-F '65.
(MIRA 18:4)

SOV/115-58-5-34/36

AUTHOR: Livshits, E.S.

TITLE: Modern Measuring Bridges of Greater Accuracy for Measuring Inductance and Capacitance at Acoustic Frequencies (Sovremennyye mosty povyshennoy tochnosti dlya izmereniya induktivnosti i yemkosti pri zvukovykh chastotakh)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 5, pp 91-95 (USSR)

ABSTRACT: The paper deals predominately with measuring bridges
currently produced in the west. The author mentions 2
East European products: a) Bridge TM-382 (Tesla, Czecho-
slovakia) for an inductance range of 1 μ H to 1 H and
a tolerance of from ± 0.2 to ± 0.5%. The bridge is
used in the frequency range of 100 c to 10 kc: It was
constructed on the Maxwell-Bridge principle. b) Bridge
204 of the RFT plant (German Democratic Republic) for
measuring capacitance: working frequency is 800 c.
Range 100 $\mu\mu$f to 1 μ f; the tolerance between 0.01 μ
f and 0.1 μ f is ± 0.2% and between 0.1 μf and 1 μf is

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Modern Measuring Bridges of Greater Accuracy for Measuring Inductance and Capacitance at Acoustic Frequencies SOV/115-58-5-34/36

± 0.5%. There is 1 table and 6 references, 3 of which are Soviet, 1 German and 2 English.

Card 2/2

LIVSHITS, E.S.

Development of large inductance standards for verification purposes. Trudy inst. Kom. stand., mer i izm. prib. no.52: 76-87 '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Komiteta standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR.

(Electric coils--Standards)
(Electric measurements)

LIVSHITS, E.S.

New high-precision a.c. bridges. Izm.tekh. no.4:55-59 Ap '63. (MIRA 16:5)

(Bridge circuits)

LIVSHITS, E.S.

Methods for measuring the quality factor ratio (or resistance ratio) of inductance coils at sonic frequencies. Izm. tekh., no.5:34-38 My'64 (MIRA 17:7)

L 16716-65 EWT(d)/EEC(k)-2/EEC-4 Po-4/Pq-4/Pg-4/Pk-4/PI-4 AFWL
ACCESSION NR: AR5000770 S/0058/64/000/010/A026/A026

SOURCE: Ref. zh. Fizika, Abs. 10A266

AUTHORS: Livshits, E. S.

TITLE: Developments of large measurement inductances for frequencies up to 1000 cps

CITED SOURCE: Tr. in-tov Kom-ta standartov, mer i izmeritel'nykh priborov pri Sov.
Min. SSSR, vyp. 74(134), 1963, 28-40

TOPIC TAGS: electric measuring device, inductance 10

TRANSLATION: Inductance boxes rated 1--10 and 10--100 henry have been developed.
The boxes are assembled of standard units equipped with shell-type cores with air gaps,
made of an iron-nickel alloy with high permeability (initial permeability ∿ 10,000). To
increase the dynamic permeability, the thickness of the lamination does not exceed
0.15 mm. The effect of the intrinsic capacity of the cores is reduced by sectionalizing

Card 1/2

L 16718-65
ACCESSION NR: AR5000794

face has led to a uniform increase in the MH in all directions. Polar anisotropy of the MH on the (111) face was observed. The rosette had three maxima and three minima. In the case of scratch marks made by the center of a triangle with sides along < 110 >, the maxima of MH are directed towards the cornice of the triangle, and in the case of scratch marks made from the sides of the triangle towards its center, the maxima are located in the direction towards the sides of the triangle. The rosettes on LiF are analogous to the rosette on NaCl. A. Urusovskaya.

SUB CODE: SS, IC ENCL: 00

Card 2/2

LIVSHITS, F.

"Album of visual aids for the course "Finance of the U.S.S.R." Part 1 by A.M. Goldenberg. Reviewed by F.Livshits. Fin. SSSR 22 no.1:87-89 Ja '61. (MIRA 14:1)
(Finance--Audio-visual aids) (Goldenberg, A.M.)

LIVSHITS F.

AUTHOR: Livshits, F. 2-58-4-8/14

TITLE: On the Question of the Appraisal of the Work of A.A. Chuprov and S. Poisson (K voprosu ob otsenke rabot A.A. Chuprova i S. Puassona)

PERIODICAL: Vestnik Statistiki, 1958, Nr 4, pp 70-78 (USSR)

ABSTRACT: The author criticizes Doctor of Economic Sciences, Professor B.S. Yastremsky, for factual historical errors made in a letter entitled "Legend of the Miraculous Role of the Law of Large Numbers" published in "Vestnik Statistiki", 1957, Nr 2, and in his textbook "Mathematical Statistics" Gosstatizdat, 1956. Yastremsky is accused in particular of proposing an incorrect synonym for the "Law of Large Numbers", based on an incorrect translation of Marx, and of incorrect interpretations of part of the work of V. Lexis, A.A. Chuprov, and S. Poisson, with regard to the theory of the stability of statistical series.
There are 2 Soviet and 1 French references.

AVAILABLE: Library of Congress

Card 1/1

LIVSHITS, F. B.

SOV/138-58-6-3/25

AUTHORS: Pechkovskaya, K.A., Shedid-Khuzemi, N.A., Orlovskiy P.N., Livshits, F.B., Novikova I.S. and Bryushkova, I.I.

TITLE: Chemical and Physico-Chemical Methods of Evaluating the Properties of Carbon Black (Khimicheskiye i fiziko-khimicheskiye metody otsenki kachestva sazh) Part II: The Fundamental 'Structure' of Carbon Black (Soobshcheniye II: pervichnaya 'struktura' sazhi)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 6, pp 8 - 13 (USSR)

ABSTRACT: The colorimetric method for evaluating the dispersity of carbon black was discussed in Part I (Ref 1). This article describes investigations on the 'structure' of carbon black. After defining the terminology of 'carbon black particles', crystallite, and the primary and secondary aggregate, methods for the quantitative evaluation of the fundamental 'structure' of carbon black are discussed. None of these methods was entirely satisfactory. Comparative evaluation of the fundamental 'structure' can be achieved by defining the oil number and the 'structure' index. The form factor can serve as an added characteristic. The partial breakdown of the fundamental 'structure'

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SOV/138-58-6-3/25

Chemical and Physico-Chemical Methods of Evaluating the Properties of Carbon Black

of jet carbon black leads to a decrease in the oil number without causing appreciable changes in the unit surface. The fundamental 'structure' inhibits granulation of the carbon black. The secondary 'structure' makes granulation easier. The degree of the development of the fundamental 'structure' indicates a change in the technological properties of the raw material mixtures; mixtures containing carbon black with large primary particles are usually more viscous, can be sprayed more quickly and give a thinner deposit than mixtures containing carbon black of normal structure. Jet carbon black (with partly disintegrated fundamental 'structure') imparts to vulcanisates, based on SKB, a lowered modulus, a lower degree of electroconductivity and increased bonding strength to cords (Fig 3). The degree of dispersity and data on the 'structure' of various Soviet carbon blacks are listed in

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SOV/138-58-6-3/25

Chemical and Physico-Chemical Methods of Evaluating the Properties of Carbon Black

Table 2, and Table 4 gives the physico-chemical and technological properties of American furnace carbon black. There are 5 tables, 3 figures and 13 references (7 English, 2 German and 4 Soviet)

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Research Institute for the Tire Industry)

1. Carbon black--Physical properties 2. Carbon black--Chemical properties 3. Colorimetric analysis--Applications

Card 3/3

S/138/60/000/008/007/015
A051/A029

AUTHORS: Gilyazetdinov, L.P.; Zuyev, V.P.; Livshits, F.B.; Saulina, V.V.

TITLE: The Production of Low-Module Furnace Carbon Blacks From Liquid Shale Raw Material

PERIODICAL: Kauchuk i Rezina, 1960, 19 No. 8, pp. 32 - 35

TEXT: The effect of the chemical composition of the raw material on the properties of the carbon black was studied on shale oil, shale softener and its mixtures with green oil. The experimental procedure for the production of furnace carbon black with an output capacity of 20kg/h was described in Refs. 1,2. The content of oxygen and oxygen-containing compounds in the liquid shale raw material is 10.9 and 77.8%, respectively, which is a significant difference from green oil. It was established that with an equal specific surface the carbon black produced from shale raw material has significantly lower oil numbers than carbon blacks from green oil. Rubbers containing carbon blacks derived from a shale softener and its mixtures with green oil are close to rubbers with gaseous channel carbon black in their physico-mechanical properties. The carbon blacks from shale raw material produce rubbers with low modulae and high relative elongations. Tests were carried out on semi-active and active carbon blacks and it was noted that the

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S/138/60/000/008/007/015
A051/A029

The Production of Lower-Module Furnace Carbon Blacks From Liquid Shale Raw Material

vulcanizates of the standard mixtures based on CKБ(SKB), CKC-30AM (SKS-30AM)
containing shale carbon black had low modulae at high values of the tenacity limit
and the specific elongation. With an increase of the shale softener in the initial
raw material, the tensile strength changes within the limits of 220 - 257 kg/cm^2,
whereas in modulae with 300% the elongation and specific elongations are equal to
130 - 56 kg/cm^2 and 470 - 667%, respectively. The low structuralization of the
carbon blacks produced from shale raw material and the low modulas of the vulcani-
zates using these carbon blacks is explained by the specific effect of the oxygen
organically bound with a raw material molecule on the formation process of the
carbon black particles in a turbulent flame. The authors point out that this mech-
anism has not been completely investigated. They stress the fact that the shale
oil and the shale softener can be applied as raw material to the production of
special low-module carbon blacks or as a component part of raw material, which
gives the carbon black a low structuralization with a wide variety of properties.
There are 4 tables and 7 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific
Research Institute of the Tire Industry)

Card 2/2

S/081/61/000/023/054/061
B106/B101

AUTHORS: Pechkovskaya, K. A., Livshits, F. B., Orlovskiy, P. N., Novikova, I. S.

TITLE: Comparative study of the physicochemical and technical properties of test samples of disperse furnace blacks of the HAF type

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1961, 560, abstract 23T347. (Tr. N.-i. in-ta shin. prom-sti, sb. 5, 1960, 68-80)

TEXT: The results of a comparative study of the properties of test samples of disperse furnace blacks (DB) of the HAF type from liquid raw material and import fillblack O are presented. The increased adsorption surface of the DB blacks and their higher oxygen content can retard the vulcanization process and sometimes diminish strength of vulcanizates. As to dispersity, the DB blacks, produced under semi-industrial conditions from liquid raw material, are not inferior to the best blacks of type HAF. The most important physicochemical and chemical properties of the DB blacks are given along with the electrical conductivity, internal friction,

Card 1/2

Comparative study of the... S/081/61/000/023/054/061
B106/B101

and physicomechanical properties of СКС-30 АМ (SKS-30AM) rubber containing DB blacks. The latter tend to form secondary structures, which entails incomplete dispersion of the black in the compound and, consequently, leads to a decrease in abrasion resistance and strength of the rubber. The properties of vulcanizates containing DB blacks can be improved by modifying the formula for the rubber compound used to examine the above-mentioned blacks. [Abstracter's note: Complete translation.]

✓

Card 2/2

LIVSHITS, F.D.

[Collection of problems in commercial arithmetic] Sbornik zadach po khoziaistvennym vychisleniiam. Moskva, Gos.statist. izd-vo, 1951. 267 p. (MIRA 10:11)

(Arithmetic, Commercial--Problems, exercises, etc.)

LIVSHITS, F.D.; SHENTSIS, Ye.M., redaktor; MELENT'YEV, A.M., tekhnicheskiy redaktor.

[Slide rule for economists; manual for statisticians, accountants and planners] Schetnaia lineika dlia ekonomistov; posobie dlia rabotnikov statistiki, ucheta i planirovaniia. Moskva, Gos. statisticheskoe izd-vo, 1954. 174 p. [Microfilm] (MIRA 7:12)
(Slide rule)

LIVSHITS, F.D.

The law of great (average) numbers in social phenomena. Uch.zap. po stat. 1:166-192 '55. (MLRA 9:11)
(Statistics) (Numbers, Theory of)

LIVSHITS, FEDOR DAYVDOVICH

N/5
611.91
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Statisticheskiye tablitsy; nauchno-populyarnyy ocherk istorii vozniknoveniya, sposobov postroyeniya, priyemov chteniya i analiza Statistical tables Moskva, Gosstatizdat, 1958.

137 p. tables (part fold.)

ISAKOV, Vasiliy Ivanovich; LIVSHITS, Fedor Davidovich; Prinimal uchastiye
ROZHNOV, V.S., kand.ekonom.nauk. KOROTKOVA, L., red.; TELEGINA, T.,
tekhn.red.

[Financial calculations] Finansovye vychisleniia. Izd.2., perer.
i dop. Moskva, Gosfinizdat, 1960. 319 p.

(MIRA 14:2)

(Arithmetic, Commercial) (Machine accounting)

ISAKOV, Vasiliy Ivanovich; LIVSHITS, Fedor Davidovich; ROZHNOV,
Vladimir Sergeyevich; MAZURKEVICH, M., red.; LEBEDEV, A.,
tekhn. red.

[Financial calculations] Finansovye vychisleniia. Izd.3.,
perer. Moskva, Izd-vo "Finansy," 1964. 243 p.
(MIRA 17:4)

LIVSHITS, F. I.

Reactions of the peripheral nervous system of the soft cerebral membraines in tuberculous leptomeningitis and certain toxemias. Zh. nevropat. psikhiat., Moskva 52 no.5:41-46 May 1952. (CLML 22:2)

1. Assistant at the Clinic for Nervous Diseases. 2. Of the Department of Histology (Head -- Prof. N. I. Zasybin), Dnepropetrovsk Medical Institutes.

UL'BERG, R.F.; RYABCHUK, G.P.; LIVSHITS, F.L.

Cantilever-type wire tables for paper and cardboard machines. Bum. prom. 36 no.10:8-11 O '61. (MIRA 15:1)

1. Ukrainskiy gosudarstvennyy institut po proyektirovaniyu tsellyulozno-bumazhnoy promyshlennosti.

(Papermaking machinery)

SHKOL'NIK, V., inzh.; LIVSHITS, G., inzh.

Using large-panel partitions in building apartment houses. Biul.stroi.tekh. 12 no.9:1-4 S '55. (MIRA 12:1)

1. Stroitel'noye upravleniye No.1 tresta No.3 Ministerstva gorodskogo i sel'skogo stroitel'stva BSSR.
(Concrete slabs)

LIVSHITS, G. A.

Povysheniye kinematicheskoy tochnosti zubofrezernykh stanov (Increasing the kinematic accuracy of gear cutting machines, by) L. A. Arkhangel'skiy, G. I. Tkachevskiy i G. A. Livshits. Moskva, Mashgiz, 1954. 199 p. diagrs.

SO: N/5
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LIVSHITS G.A.

ARKHANGEL'SKIY, L.A.; TKACHEVSKIY, G.I.; LIVSHITS, G.A.

Increasing the kinematic accuracy of gear-milling machines. [Trudy] TSNIITMASH 65:3-199 '54. (MLRA 7:9)
(Gear-cutting machines)

LIVSHITS, G.A., kand. tekhn. nauk.

Investigating the transverse helical rolling of profiles with alternating cross sections on a three-roll mill. [Trudy] TSNIIT-MASH 73:29-76 '55. (MIRA 11:3)

(Rolling (Metalwork))

LIVSHITS, G.A., kandidat tekhnicheskikh nauk.

Evaluating the efficiency of friction parts of a toroidal speed variator. [Trudy] TSNIITMASH no.78:208-220 '56. (MLRA 10:1)
(Mechanical movements) (Friction)

LIVSHITS, G. A.

G. A. Livshits, "Tooth Errors in Turbine Reduction Gears as Exciters of Vibrations and Air Noise in Geared Turbine Sets."

paper presented at the 2nd All-Union Conf. on Fundamental Problems in the Theory of Machines and Mechanisms, Moscow, USSR, 24-28 March 1958.

ANTOSHIN, Ye.V.

.25(5) p3 PHASE I BOOK EXPLOITATION SOV/1361

Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. t. 2: Tekhnologiya remonta (Handbook for Mechanics of Machine-building Plants in Two Volumes. Vol. 2: Technology of Repair Operations) Moscow, Mashgiz, 1958. vii, 1059 p. 40,000 copies printed.

Resp. Ed.: Yu.S. Borisov, Engineer; Ed.: K.G. Tsopin, Engineer; Tech. Ed.: T.F. Sokolova; Eds. of Set: Yu.S. Borisov, Engineer, A.P. Vladziyevskiy, Doctor of Technical Sciences, and R.A. Noskin, Candidate of Technical Sciences; Managing Ed. for Reference Literature (Mashgiz): V.I. Krylov, Engineer.

PURPOSE: This handbook is intended for personnel responsible for repair and maintenance operations in a machinery-manufacturing plant.

COVERAGE: The handbook contains information pertinent to the organization of repair and maintenance operations, design-preparation of maintenance work, and economics of maintenance. Information on scientific research organizations and plants participating in preparation of this volume is included in the coverage of Volume 1 (SOV/1359). There are no references. Basic topics covered include reconditioning and making of parts in maintenance operations; metal-working, hoisting, and pipe-fitting; finishing operations involved in maintenance work; checking parts for precision; basic bench and assembly work; maintenance of power equipment; and maintenance of foundations.

Methods of increasing the kinematic precision of screw- and gear-cutting machines (Arkhangel'skiy, L.A., Engineer, Tkachevskiy, G.I., Engineer, and Livshits, G.A., Candidate of Technical Sciences) 290
Direct increase of precision of kinematic chain links 290
Error compensation in kinematic chains 292
Improving precision characteristics of machine tools by changing their kinematic parameters 296
Stabilization of errors in kinematic chains 297

Technology of manufacturing parts for metal-cutting machines (Kruglyak, L.A., Engineer) 298
Machining of shafts and spindles 298
Manufacture of lead screws 303
Machining of gears 307
Machining of worm gears and worms 311
Machining of pulleys and flywheels 317
Manufacture of springs 317

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Livshits, G.A.

ANTOSHIN, Ye.V.

.25(5) p3 PHASE I BOOK EXPLOITATION SOV/1361

Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. t. 2: Tekhnologiya remonta (Handbook for Mechanics of Machine-building Plants in Two Volumes. Vol. 2: Technology of Repair Operations) Moscow, Mashgiz, 1958. vii, 1043 p. 40,000 copies printed.

Resp. Ed.: Yu.S. Borisov, Engineer; Ed.: K.G. Tsopin, Engineer; Tech. Ed.: T.F. Sokolova; Eds. of Set: Yu.S. Borisov, Engineer, A.P. Vladziyevskiy, Doctor of Technical Sciences, and R.A. Noskin, Candidate of Technical Sciences; Managing Ed. for Reference Literature (Mashgiz): V.I. Krylov, Engineer.

PURPOSE: This handbook is intended for personnel responsible for repair and maintenance operations in a machinery-manufacturing plant.

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Checking the kinematic precision of machine tools (Arkhangel'skiy, L.A., Engineer; Tkachevskiy, G.I., Engineer; and Livshits, G.A., Engineer) 624
  Geometric and kinematic inaccuracies of machine tools 624
  Kinematic chains of gear-cutting and threading machines and methods for their inspection 631
  Checking the precision of kinematic chains connecting two rotating links 633
    Indirect control of kinematic precision 633
    Direct control of precision of kinematic chains 634
  Controlling precision of kinematic chains connecting rotating and advancing links 641
    Gear-cutting machines 641
    Screw-cutting machines 643
  Determining basic component factors of functional error 644
  Excluding the effect of inaccuracy of measuring instruments in determining functional kinematic errors 647

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ABRAMOVICH, I.I., prof., ANBINDER, A.G., inzh., ANTOSHIN, Ye.V., inzh.,
ARKHANGEL'SKIY, L.A., inzh., ASTAF'YEV, S.S., kand. tekhn. nauk,
AFANAS'YEV, L.A., inzh., BARGSHTEYN, I.I., inzh., BORISOV, Yu. S.,
inzh., red., BYALYY, I.L., inzh., VETVITSKIY, A.M., inzh., GERSHMAN,
D.Kh., inzh., GINZBURG, Z.M., inzh., GOROSHKIN, A.K., inzh.,
YEVDOKIMCHIK, Kh.I., inzh., ZHIKH, V.A., kand. tekhn. nauk,
ZABYVAYEV, Ye. I., kand. tekhn. nauk, [deceased], ZOBIN, V.S., inzh.,
IVANOV, G.P., kand. tekhn nauk, KAPRANOV, P.N., inzh., KONDRATOVICH,
V.M., inzh., KOSTEREV, S.K., inzh., KOVAL'SKIY, N.N., inzh., KRUGLYAK,
L.A., inzh., LUKYANOV, T.P., inzh., LAPIDUS, A.S., kand. tekhn. nauk,
LIVSHITS, G.A., kand. tekhn. nauk, LISHANSKIY, I.M., inzh., MIGALINA,
Ye.Ya., inzh., NOSKIN, R.A., kand. tekhn. nauk; ., PRONIKOV, A.S.,
doktor tekhn. nauk, REGIRER, Z.L., kand. tekhn. nauk, RUDYK, M.A.,
inzh., SOKOLOVA, N.V., inzh., SAKLINSKIY, V.V., inzh., SAKHAROV, V.P.,
inzh., TOKAR', M.KH., inzh., TKACHEVSKIY, G.I., inzh., KHRUNICHEV,
Yu.A., kand. tekhn. nauk, TSOPIN, K.G., inzh., red.; SHEYNGOL'D, Ye. M.,
inzh., SOKOLOVA, T.F., tekhn. red.

[Handbook for machinists of machinery plants in two volumes] Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol. 2. [The technology of repair work] Tekhnologiia remonta. Otv. red. toma IU. S. Borisov, 1958. 1059 p. (MIRA 11:10)

(Machinery--Maintenance and repair)
(Machine-shop practice)

SOV/28-59-10-6/36

26(1)

AUTHOR: Livshits, G.A.

TITLE: Methods for Diminishing Vibrations and Noise of High-Speed Reducers

PERIODICAL: Standartizatsiya, 1959, Nr 10, pp 22-24 (USSR)

ABSTRACT:

The cyclic errors of pinions in high-speed turbine reducers cause a periodical change of the force transmitted by the clutching device; as a consequence, the forces acting on the bearings of pinion shafts also undergo certain alterations. These variable forces engender vibrations (structural noise) of the pinions, reducer body, its foundation and the whole assembly. A part of vibration energy is radiated into the surrounding medium; it is perceived as noise in the air or as vibration in [illegible] water (for ship's turbo-assemblies). Experience has shown that these vibrations affect the performance and cause fatigue destructions of important components of reducers and turbines. A high decree of accuracy in manufacturing turbine reducer pinions decreases vi-

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brations and noise of assemblies. The problem is to establish what dynamic balance is required for assemblies in order to diminish vibrations appearing under normal operating conditions. The dynamic component of the pinion teeth pressure force is expressed by the formula

$$S = C \sum_n f_n \frac{D_0(p_n)}{D(p_n)} \cdot \sin(p_n t + \gamma_n)$$

where C - is teeth resilient contact rigidness, $D(p_n)$ - value of the frequency equation of assembly resilient system when frequency error p_n is substituted in it; $D_0(p_n)$ - value of the frequency equation of assembly resilient system when the equation is conditionally worked out assuming C = 0 (the teeth are disengaged), and when the value of frequency error p_n is substituted. From the above formula it follows that if the frequency p_n turns the value D_0 into

SOV/28-59-10-6/36

Methods for Diminishing Vibrations and Noise of High-Speed Reducers

zero, there will be no variable dynamic force acting on the pinion teeth. The requirements of GOST 8889-58 (Para b, Appendix 4) referring to the constant rotational speed assemblies as well as to the assemblies with a regulated speed establish that the frequencies of errors should not be the roots of the frequency equation worked out for assembly systems with closed teeth, that is, when $D(p_n) = 0$. This means for improving the operating machine qualities. There are 3 graphs and 1 diagram.

Card 3/3

LIVSHITS, G.A.

PHASE I BOOK EXPLOITATION SOV/4535

Vsesoyuznoye soveshchaniye po osnovnym problemam teorii mashin i mekhanizmov. 2d, Moscow, 1958

Teoriya mashin avtomaticheskogo deystviya i teoriya tochnosti v mashinostroyenii i priborostroyenii; sbornik statey (The Theory of Automatic Machines and the Theory of Precision in the Manufacture of Machinery and Instruments; Collection of Articles) Moscow, Mashgiz, 1960. 218 p. (Series: Its: Trudy [tom 3]) Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Institut mashinovedeniya Akademii nauk SSSR.

Editorial Board: I.I. Artobolevskiy, Academician, (Resp. Ed.), S.I. Artobolevskiy, Professor, Doctor of Technical Sciences, G.G. Baranov, Professor, Doctor of Technical Sciences, A.P. Bessonov, Candidate of Technical Sciences, V.A. Gavrilenko, Professor, Doctor of Technical Sciences, A. Ye. Kobrinskiy, Doctor of Technical Sciences, N.I. Levitskiy, Professor, Doctor of Technical Sciences, and L.N. Reshetov, Professor, Doctor of Technical Sciences; Ed.: V.V. Bystritskaya, Engineer; Tech. Ed.: B.I. Model'; Managing Ed. for Literature on General Technical and Transport Machine Building (Mashgiz): A.P. Kozlov, Engineer.

PURPOSE: This collection of articles is intended for engineers and designers, workers at scientific-research institutes, and instructors at schools of higher technical education.

COVERAGE: The collection contains discussions of precision problems in the manufacture of machines and instruments, the general theory of automatic production machines, and calculation methods for automatic production machines with programmed control. The conference at which these reports were presented was called by the Institute of the Science of Machines of the Academy of Sciences, USSR, and was held in Moscow March 24-28, 1958. The transactions of this conference have been published in 4 volumes of which the present collection is the third. No personalities are mentioned. There are 64 references, all Soviet.

4. Kasyshnyy, N.I., M.V. Meyrid', and V.F. Preys [Candidates of Technical Sciences]. Problems in the Theory of Automatic Loading of Machine Tools and Presses by Piecework Intermediate Products 42
5. Kletanov, K.K. Kinematic and Dynamic Investigations of Mechanisms for Feeding Rods to Automatic Machines 72
6. Klusov, I.A. Investigation of the Incompatibility of the Cycle Diagrams of a Six-Position Automatically Controlled Sorter 80
7. Krupin, G.V. [Candidate of Technical Sciences]. Some Problems in the Productive Capacity of Machines 88
8. Trenkner, G. [Doctor, Professor (Dresden)]. Theory and Investigations of Automatically Operating Machines 94
9. Shekhvits, E.I. [Candidate of Technical Sciences]. Systems for Controlling and Driving Mechanisms With Periodic Adjustments in Automatic Machines 104
11. Glazilin, A.G. [Engineer]. Calculation of Tolerances for a Given Precision of a Device 135
12. Golinkevich, T.A. [Candidate of Technical Sciences]. Some Problems in Calculating the Precision of Complex Computing Devices 152
13. Dostupov, B.G. [Doctor of Technical Sciences]. On Estimating the Accuracy of Analog Computers Designed for the Solution of Ordinary Differential Equations 158
14. Ivantsov, A.I. [Candidate of Technical Sciences]. Problems of Measuring Technique in Machine Manufacture Which Can be Solved on the Basis of the Theory of Precision of Mechanisms 169
15. Mikhaylov, Ye. A. [Engineer]. On Increasing the Accuracy of Mechanisms by the Method of Adjustment 183
16. Livshits, G.A. [Candidate of Technical Sciences]. Defects in Turbine Reduction Gears as Exciters of Vibration and Noise in Turbogear Assemblies 197
17. Sergeyev, V.I. [Candidate of Technical Sciences]. On the Design of Automatized Bridge Computers 208

AVAILABLE: Library of Congress (TJ1185.V8 1958)

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AC/wrc/mas
12-30-60

Livshits, G.A.

PHASE I BOOK EXPLOITATION SOV/4438

Vzaimozamenyayemost' i tekhnicheskiye izmereniya v mashinostroyenii: mezhvuzovskiy sbornik, no. 2 (Interchangeability and Engineering Measurements in Machinery Manufacture; University Collection, No. 2) Moscow, Mashgiz, 1960. 542 p. Errata slip inserted. 5,000 copies printed.

Ed.: A.I. Yakushev, Doctor of Technical Sciences, Professor; Editorial Council: A.I. Yakushev (Chairman); B.A. Tayts, Doctor of Technical Sciences, Professor; Ye. I. Volodin, Docent; N.N. Ganchev, Docent; P.N. Goberman, Docent; and O. Ya. Yegor'yev (Scientific Secretary), Engineer; Reviewer: M. Ye. Yegorov, Doctor of Technical Sciences, Professor; Eds.: B.A. Tayts; V.P. Korotkov, Candidate of Technical Sciences, Docent; L.N. Vorontsov, Candidate of Technical Sciences; Managing Ed. for Literature on Machine and Instrument Construction (Mashgiz): N.V. Pokrovskiy, Engineer; Ed. of Publishing House: G.F. Kochetova; Tech. Ed.: T.F. Sokolova.

PURPOSE: This collection of articles is intended for scientific and technical personnel dealing with problems of interchangeability and engineering measurements in the machine and instrument industries.

Goberman, P.N. [Candidate of Technical Sciences, Docent]. Solution of Some Problems of Thread Interchangeability With the Theoretical-Probability Method 96

Tishchenko, O.F. [Candidate of Technical Sciences]. Calculation of Tolerances for Toothed Gears in Clocks Based on Gear-Cutting Conditions 111

[illegible], S.I., and B.I. Livshits [Candidates of Technical Sciences]. Principles for Determining Cam Dimensions and Tolerances 135

Vorob'yev, Yu. A. [Engineer]. Dimensional Tolerances for Nonferrous-Alloy Castings 160

Kalitenko, V.G. [Engineer]. Basis for Selecting the Clearance Between Compressor Cylinders and Pistons 185

SECTION II. ENGINEERING MEASUREMENTS

Tayts, B.A. Basic Principles in the Selection of Accuracy of Measuring Devices 202

Tayts, B.A. Analysis of the Errors of Various Gear-Machining Methods 223

Livshits, G.A. [Candidate of Technical Sciences]. Checking the Kinematic Accuracy of Precision Toothed Gears 243

Solomin, L.N. [Engineer]. Measuring the Kinematic Error of Herringbone Gears 278

Markov, N.N. [Candidate of Technical Sciences]. Master Gears for Composite Gear Inspection 286

Lopovok, T.S. [Candidate of Technical Sciences, Docent]. Checking of Geometrical Errors of Cylinders 312

Volosov, S.S. [Candidate of Technical Sciences, Docent]. Methods for Checking Run-out and Clearances in Rolling-Contact Bearings 322

Card 4/7

LIVSHITS, G.A., kand.tekhn.nauk

Errors in toothed engagement of a high-speed reducing gear and some problems in the dynamics of the unit. Vzaim.i tekh. izm.v mashinostr.; mezhvuz.sbor. no.3:66-92 '61.
(MIRA 14:8)

(Gearing)

LIVSHITS, G.A., kand.tekhn.nauk

Errors of the toothed gears of turbine reduction gears as sources of vibration excitation and noise in toothed-gear turbine units. Energomashinostroenie 7 no.6:29-34 Je '61. (MIRA 14:7)
(Turbomachines)

L 00925-66 EWT(d)/T

ACCESSION NR: AP5021617 UR/0286/65/000/013/0095/0095
621.-567.2

AUTHOR: Livshits, G. A.; Voropayev, V. I.

10
B

TITLE: Hydraulic damper. Class 47, No. 172578

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 95

TOPIC TAGS: hydraulic damper, worm gear drive, vibration damping

ABSTRACT: An Author Certificate has been issued for a hydraulic damper consisting of an internal conical surface and an external conical surface, with a gap between them being filled with a liquid (see Fig. 1 of the Enclosure). One of these surfaces is capable of radial motion for damping radial vibration. To prevent critical speeds in systems with several degrees of freedom through a change in the damping factor, the other part is adjustable in an axial direction, thus changing the liquid-filled gap. To move the part axially, the part is threaded to a worm-gear-driven ring incapable of axial motion. Orig. art. has: 1 figure. [LB]

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya (Central Scientific Research Institute of Technology and Machine Building)

Card 1/3

L 00925-66

ACCESSION NR: AP5021617

0

SUBMITTED: 19Feb64 ENCL: 01 SUB CODE: IE, ME

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4077

Card 2/3

L 00925-66

ACCESSION NR: AP5021617

ENCLOSURE: 01

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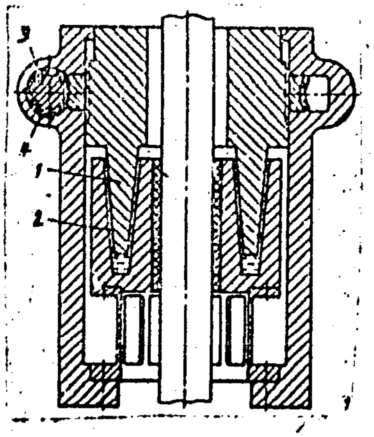


Fig. 1. Hydraulic damper

1 - Conical surface; 2 - gap;
3 - worm-gear-driven ring;
4 - worm gear.

Card 3/3 DP

VORONOV, M.A.; KHORUZHENKO, M.V.; KARASEV, Ye.A.; BELYY, V.A.; LIVSHITS, G.A.; VOROPAYEV V.I.; GONSKIY, G.V.; MEL'NICHENKO, V.P.; MOLCHANOV, M.A.; GLYBIN, B.V.; NAVAGIN, Yu.S.; RAKOYED, A.I.; PETRIKOV, V.G.

Soviet inventions in the machinery industry. Vest.mashinostr. 46 no.1:85-86 Ja '66. (MIRA 19:1)

LIVSHITS, G. B. and L'VOV, V. S. (Moscow)

"The Constitution of the Alloys Fe-Ni-Al in their High Coercive State," paper presented at the International Conference on Physics of Magnetic Phenomena, Sverdlovsk, USSR, 23-31 May 1956

B.

LIVSHITS, G.; MOLOTILOV, B.V.:MYULLER, N.N.; SAVOST'YANOVA, N.A.

Mechanism of ordering in Ni3 Mn alloys with varying molybedenum.
Fiz.met. i metalloved. 3 no.3:477-482 '56. (MLRA 10:3)

1. Moskovskiy institut stali.
(Nickel-magnese-molybdenum alloys--Metallography)

USSR/Miscellaneous Glass Industry

Card : 1/1

Authors : Livshits, G. I.

Title : Manufacture of consumer goods

Periodical : Stek. i Ker., No. 6, 31, June 1954

Abstract : Various glass and ceramics factories are mentioned which, in 1954, began manufacturing consumer goods (kitchen utensils, household and decorative products).

Institution : ....

Submitted : ....

[illegible], L.A.; [illegible], G.

Experimental study of enamel stains for the [illegible]. Sbor. trudy Kaz. gos. med. inst. 14:205-206 '64. (MIRA 18:7)

1. Kafedra khirurgicheskoy stomatologii (zav. - prof. Ye.A. Domracheva) Kazanskogo meditsinskogo instituta.

MELIK-GAYKAZYAN, V.I.; VINTMAN, Ye.Ya.; LIVSHITS, G.L.; BAYCHENKO, A.A.

Flotation pulp consumption meter. Ugol' 32 no.7:43-44 Jl '57.
(MIRA 10:7)

1. Tomskiy politekhnicheskiy institut (for Melik-Gaykazyan and Baychenko). 2. Nikitovskaya TSentral'naya obogatitel'naya fabrika (for Vintman and Livshits).
(Flotation) (Measuring instruments)

LIVSHITS, G.L.

BAYCHENKO, A.A.; MELIK-GAYKAZYAN, V.I.; LIVSHITS, G.L.; CHUBENKO, A.I.

Strengthening the flotation process by the feed of an emulsified reagent. Ugol' 31 no.11:37-38 N '56. (MLRA 10:2)

(Flotation)

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

New composition for pickling baths. G. I. Lisaluta. Kachestvennaya Stal 1935, No. 6, 62; Chem. Zentr. 1936, I, 4360.—There is less loss of metal during pickling in H_2SO_4 baths when slight amts. of 1-10% of HCl are added. M. G. Moore

9

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

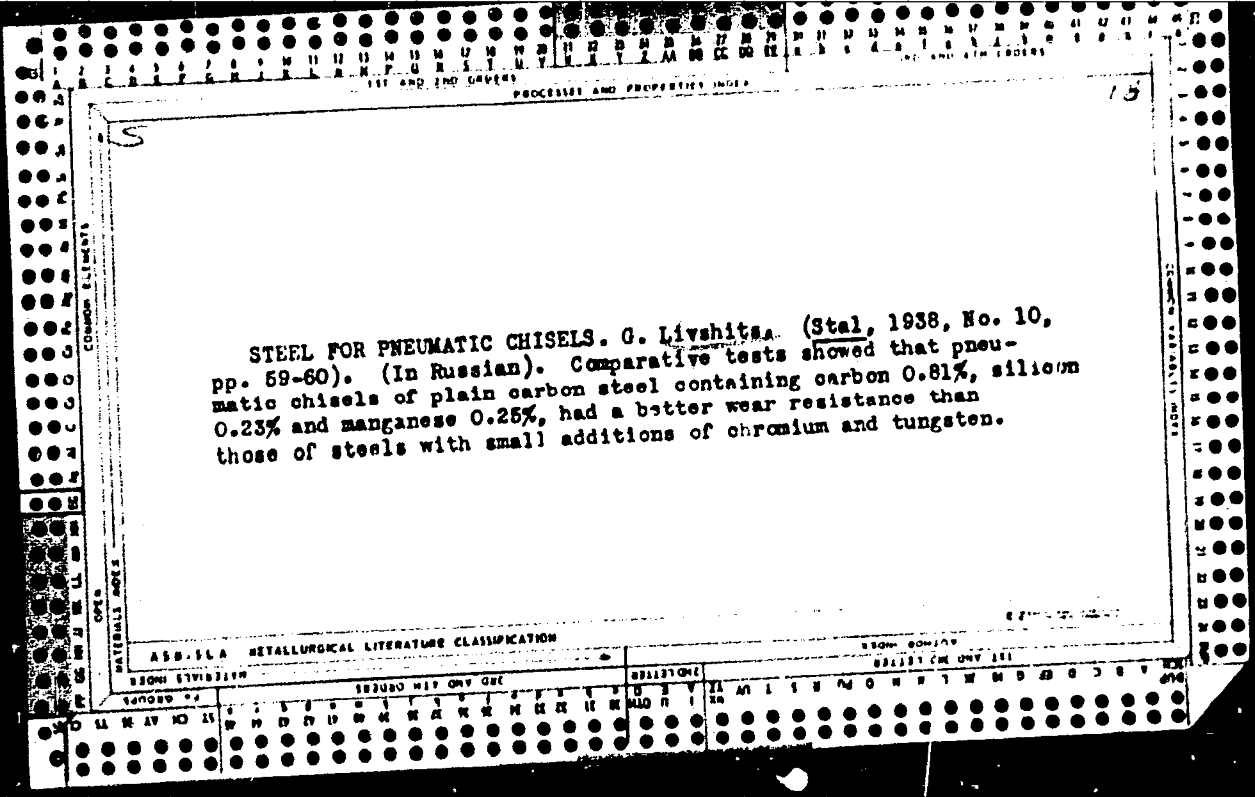
3RD AND 4TH ORDERS

S

7

Decarburisation in the Furnaces in the Rolling Plant. G. L. Livschitz and L. D. Kossovsky. (Katshestvennaia Stal, 1936, No. 8-9, pp. 55-56). Decarburisation begins at 700° to 750°; its extent depends essentially on the interval of heating in the 700° to 1100° C. zone and on the time during which the material remains in the zone of highest temperature. Temperatures above 1100° C. should not be used. (In Russian).

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



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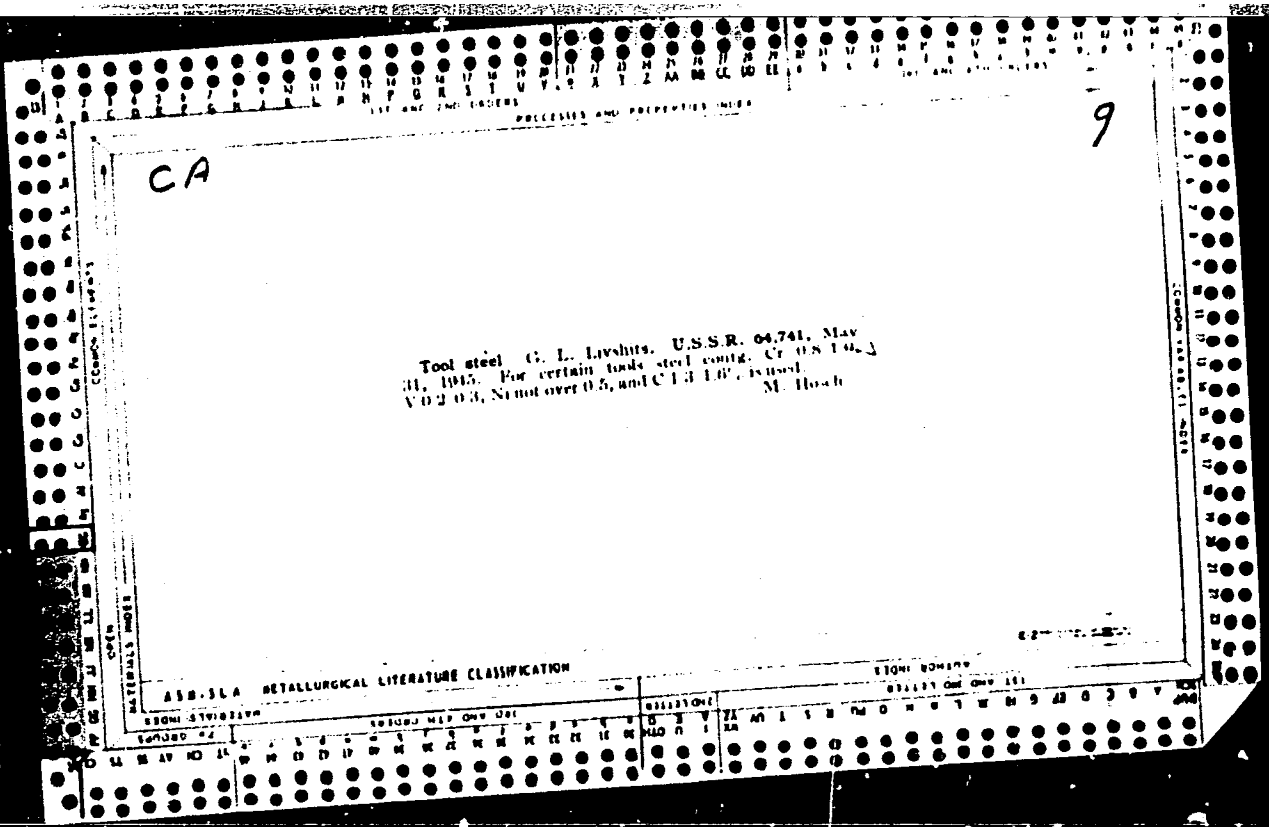
PROCESSES AND PROPERTIES INDEX

STEEL FOR PNEUMATIC CHISELS. G. Livshits. (Stal, 1938, No. 10, pp. 59-60). (In Russian). Comparative tests showed that pneumatic chisels of plain carbon steel containing carbon 0.81%, silicon 0.23% and manganese 0.25%, had a better wear resistance than those of steels with small additions of chromium and tungsten.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



PROCESSES AND PROPERTIES INDEX
1ST AND 2ND ORDERS

CA

9

Tool steel. G. L. Livshits. U.S.S.R. 64,741, May 31, 1945. For certain tools steel contg. Cr 0.8 1.0, V 0.2 0.3, Ni not over 0.5, and C 1.3 1.6%, is used.
M. Hosch

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

FA 41T97

LIVSHITS, G. L.

Feb 1948

USSR/Metals
 Steel
 Stamping, Metal

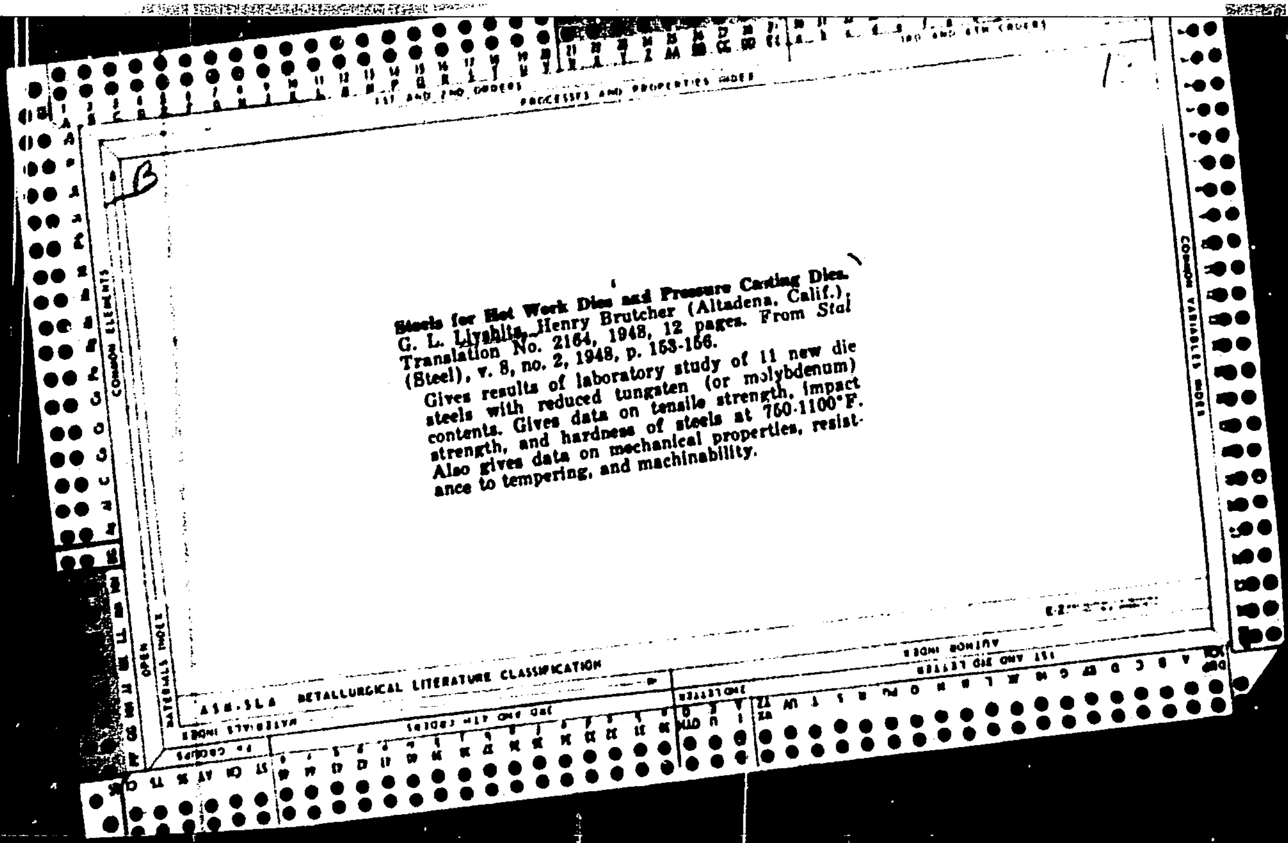
"Steel for Stamping Tools," G. L. Livshits, Candidate Tech Sci, TsNIIChM, 4 pp

"Stal'" No 2

Studies on a series of new stamping steels with low tungsten (molybdenum) content and their use in operational circumstances revealed a good possibility that these steels could be used in the manufacture of stamping tools, and for molds for die casting. If this possibility is realized the new steels will replace steels type 3XB8, and3И 160.

41T97

[redacted]


B
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION
PROCESSES AND PROPERTIES INDEX
COMMON ELEMENTS
COMMON VARIABLES INDEX
MATERIALS INDEX
AUTHOR INDEX

Steels for Hot Work Dies and Pressure Casting Dies. G. L. Livshits. Henry Brutcher (Altadena, Calif.), Translation No. 2164, 1948, 12 pages. From *Stal* (Steel), v. 8, no. 2, 1948, p. 163-166.

Gives results of laboratory study of 11 new die steels with reduced tungsten (or molybdenum) contents. Gives data on tensile strength, impact strength, and hardness of steels at 760-1100°F. Also gives data on mechanical properties, resistance to tempering, and machinability.

LIVSHITS, G. L. and SMIRNOV, Ye. V.

"Die-Block Steels and Methods of Heat Treatment," pp 42/48 in Modern Methods of Heat Treating Steel by Dom Inzhenera i [illegible] Gosudarstvennoye Nauchno-Tekhnicheskoye Izdatel'stvo Mashinostroitel'noy Literatury, Moscow (1954) 404 pp.

Evaluation B-86350, 30 Jun 55

[illegible] of the [illegible]
[illegible] considerably [illegible]
improved their plastic properties. Boron increased the
stability of austenite in the lower transformation range and

LIVSHITS, G.L., kandidat tekhnicheskikh nauk; TORPANOVA, G.A., kandidat tekhnicheskikh nauk; SMIRNOV, Ye.V., inzhener.

"Alloyed structural steels" V.A. Delle. Reviewed by G.L. Livshits, G.A. Torpanova, E.V. Smirnov. Stal' 16 no.2:188-189 F '56. (MLRA 9:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

(Steel, Structural) (Delle, V.A.)

LIVSHITS, G.L., kandidat tekhnicheskikh nauk; TORPANOVA, G.A., kandidat tekhnicheskikh nauk.

Alloying 18KhGT and 30KhGT steels with zirconium. Stal' 16 no.6: 571 Je '56. (MLRA 9:8)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
(Steel-zirconium alloys)

LIVSHITS, G. L.

130-7-9/24

AUTHORS: Pridantsev, M.V. (Prof., Dr.Tech.Sciences) and Livshits, G.L., (Cand.Tech.Sciences).

TITLE: New Types of Low-Alloy Steels (Novye marki nizkolegirovannykh staley)

PERIODICAL: Metallurg, 1957, Nr 7, pp.18-19 (USSR)

ABSTRACT: Pointing out that substantial savings of steel and reductions in the weights of articles by using low-alloy steels in place of ordinary carbon steels the authors deal with some relevant properties of the former and describe some new types. Weldability, suitability for concrete reinforcement and comparative costs are considered. A table of chemical compositions of Soviet low-alloy steels according to ГОСТ 5058-57 is given on p.19. Unlike foreign specifications, this standard guarantees the chemical compositions for each type, specifies the carbon and alloying-element contents more closely with lower top limits for carbon, sulphur and phosphorus. In connection with the need for thorough deoxidation the experience at the "Zaporozhstal'" works which showed that less aluminium could be used with improved results is mentioned. Ways of economising in ferroalloys are mentioned as is the need to avoid high-carbon exothermic mixtures for ingot hot tops.

Card 1/2

SOV/137-58-7-15786

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 269 (USSR)

AUTHORS: Pridantsev, M. V., Livshits, G. L.

TITLE: Low-alloy Steels of New Types, Their Production and Use (Nizkolegirovannyye stali novykh marok, ikh proizvodstvo i primeneniye)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 183-192

ABSTRACT: It is proposed that for important welded structures and constructions high-strength low-alloy steel be used instead of carbon steel grades St 3, 4, 15, 25, and others in cases when such a substitution does not lead to an increase in the cost of construction. Data on various grades of low-alloy steels and their uses is given. The peculiarities of the technology of the production of low-alloy steel and the application of heat treatment of the steel for the sake of economy in metal are described. See also RZhMet, 1958, Nr 1, abstract 1751.

1. Steel alloys--Production 2. Steel alloys--Applications

I. 3.

Card 1/1

SAMARIN, A.M.; YEFIMOV, L.M.; VESELKOV, N.G.; ORMAN, R.Z.; SHABANOV, A.N.; MOROZENSKIY, L.I.; GRANAT, I.Ya.; TOCHINSKIY, A.S.; ALYAVDIN, V.A.; DANILOV, P.M.; PETRIKEYEV, V.I.; POPOV, B.N.; BOBKOV, T.M.; ROSTKOVSKIY, S.Ye.; GAVRISH, D.I.; D'YAKONOV, N.S.; TIMOSHPOL'SKIY, M.N.; ROMANOV, V.D.; POCHTMAN, A.M.; MELESHKO, A.M.; PODGORETSKIY, A.A.; OFENGENDEN, A.M.; BRONSHTEYN, V.M.; PRIDANTSEV, M.V.; LIVSHITS, G.L.; ROZHKOV, V.A.; RUTES, V.S.

Reports (brief annotations). Biul. TSNIICHM no.18/19:15-16 '57. (MIRA 11:4)

1. Chlen-korrespondent AN SSSR (for Samarin). 2. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Rutes, Rostkovskiy, Pridantsev, Livshits, Rozhkov). 3. Stal'proyekt (for Shabanov). 4. Kuznetskiy metallurgicheskiy kombinat (for Alvavdin, Danilov, Petrikeyev). 5. Zavod "Elektrostal'" (for Popov). 6. "Dneprospetsstal'" (for Bobkov). 7. Glavogneupor Ministerstva chernoy metallurgii SSSR (for Gavrish). 8. Planovoye upravleniye Ministerstva chernoy metallurgii SSSR (for D'yakonov). 9. Otdel rabochikh kadrov, truda i zarplaty Ministerstva chernoy metallurgii SSSR (for Timoshpol'skiy). 10. Glavvtorchermet Ministerstva chernoy metallurgii SSSR (for Romanov). 11. Giprostal' (for Pochtman). 12. Zavod im. Voroshilova (for Meleshko). 13. Zavod "Zaporozhstal'" (for Podgoretskiy). 14. Stalinskiy metallurgicheskiy zavod (for Ofengenden). 15. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Bronshteyn).

(Steel--Metallurgy)

LIVSHITS, G.L.

SOV/133-58-7-21/27

AUTHORS: Ryzhkov, P.Ya., Engineer, Mitrofanov, A.A., Candidate of Technical Sciences, Beda, N.I., Engineer and Livshits, G.L., Candidate of Technical Sciences

TITLE: Properties of Metal Produced in Oxygen-blown Converters (Svoystva metalla, poluchennogo v konverterakh s produvkoy kislorodom)

PERIODICAL: Stal', 1958, Nr 7, pp 643 - 647 (USSR)

ABSTRACT: In the first half of 1957, on the works imeni Petrovskiy, over 300 000 tons of metal was produced in converters blown with technically pure oxygen. After rolling this was delivered to consumers instead of open-hearth metal. The following types of steel were produced: K2kp, K3kp, OKM, K10sp, K5sp, K62 (rail steel and AKNL (low alloy for accessories). In view of the above, an investigation of the properties of converter steels and their comparison with open-hearth steels was carried out. A comparison of the mean chemical composition of various converter steels (nominator) with the standard composition of corresponding open-hearth steels (denominator) together with standard deviations (in brackets) - Table 1; frequency curves of the content of carbon (A), manganese (B), phosphorus (V) and sulphur (G) in steel St. 3kp,

Card1/3

SOV/133-58-7-21/27

Properties of Metal Produced in Oxygen-blown Converters

produced by converter (a), Bessemer (b) and open-hearth (v) processes - Figure 1; frequency curves of nitrogen content in St. 3kp steel produced by converter (a) and open-hearth (b) processes - Figure 2; mean content of gases in rolled products from converter (K), open-hearth (M) and Bessemer (B) metal - Table 2; frequency curves of values for yield point (A), yield strength (B), relative elongation (V) and relative reduction (G) of steel St. 3kp produced by converter (a), open-hearth (b) and Bessemer (v) processes; impact strength at various testing temperatures and after artificial ageing of specimens from various rolled products from converter (nominator) and open-hearth (denominator) metal - Table 3; mechanical properties of welded specimens from open-hearth (M) and converter (K) St. 3kp steel - Table 4. It was found that properties of the metal (of a similar composition to that of open-hearth) produced from pig iron in oxygen-blown converters with basic linings are equal to those of open-hearth metal and correspond to the requirements of standards MChTU 5567-56; GOST 380-50 and GOST 4231-48 for open-hearth metal. The content of

Card2/3

SOV/133-58-7-21/27

Properties of Metal Produced in Oxygen-blown Converters

gases, macro- and microstructure as well as weldability of rolled products produced from converter metal of heats investigated are practically the same as those from open-hearth metal. Tests of specimens from rolled converter and open-hearth steel for impact strength at various temperatures and after artificial ageing did not show any substantial difference in the indices. Testing conditions were practically the same. The quality of the usual and telegraph wire from converter metal did not differ from that made from open-hearth metal. There are 4 tables and 3 figures.

ASSOCIATIONS: Zavod im. Petrovskogo (**Plant imeni Petrovskiy**) and TsNIIChM

Card 3/3

1. Metals--Production 2. Metals--Properties 3. Blast furnaces --Operation 4. Oxygen--Applications

[illegible] 59-3-24/32

AUTHORS: Prodantsev, M.V., Doctor of Technical Sciences, Professor, Livshits, G.L., Torpanova, G.A., Candidates of Technical Sciences

TITLE: Nitriding Molybdenum-Free Steel (Azotiruyemaya bezmolibdenovaya stal')

PERIODICAL: Stal', 1959, Nr 3, pp 262 - 267 (USSR)

ABSTRACT: The development, production and testing of molybdenum free nitriding steels is described. Laboratory and industrial investigations indicated that in order to obtain nitrided surface of a hardness not less than 900 Hv on chromium, chromium-vanadium and chromium tungsten vanadium steels the content of aluminium of 0.4% is sufficient. Such a decrease in the aluminium content also improves the technological properties of steel during its smelting. To replace steel 38KhMYuA three new steels of the following composition were developed, %:

	C	Si	Mn	Cr
38KhYuA	0.35-0.43	0.17-0.37	0.20-0.40	1.50-1.80
38KhVFYuA	0.35-0.43	0.17-0.37	0.20-0.40	1.50-1.80
38KhVYuA	0.35-0.43	0.17-0.37	0.20-0.40	1.50-1.80

Card1/3

Nitriding Molybdenum Free Steel SOV/133-59-3-24/32

	W	V	Al
38KhYuA	------	--------	0.50-0.80
38KhVFYuA	0.20-0.40	0.10-0.20	0.40-0.70
38KhVYuA	0.20-0.40	--------	0.40-0.70

These steels after thermal treatment may possess indices of mechanical properties not lower than:

	σ_B kg/mm^2	σ_S kg/mm^2	δ %	ψ %	a_k kgm/cm^2
Steel 38KhYuA after hardening of a billet of dia. 30 mm in oil or warm water from 930 ° and annealing at 600-630 °C	95	80	12	50	8
38KhVfYuA after hardening as above and annealing at 600 °C	100	85	15	50	9
38KhVYuA after hardening as above and annealing at 620-640 °C	100	85	15	50	9 .

Card2/3

Nitriding Molybdenum Free Steel SOV/133-59-3-24/32

Steel 38KhYuA is recommended for parts of small cross-sections and the other two steels for larger parts. The hardness of the nitrided surface of these steels is not less than 900 Hv. The technology of production of machine parts from these steels does not present any difficulties and is similar to that for steel 38KhMYuA. Steel 38KhYuA, as the most economical, is recommended for a wide application in the machine-building industry instead of 38KhMYuA. For nitrided parts operating at elevated temperatures (300 - 500 °C) steels 38KhVFYuA and 38KhVYuA are recommended. There are 1 figure, 7 tables and 4 references, 3 of which are English and 1 German.

ASSOCIATION: TsNIIChM

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Livshits, G.L.

PHASE I BOOK EXPLOITATION SOV/4164

Vsesoyuznoye soveshchaniye po splavam redkikh metallov. 1st, Moscow, 1957

Redkiye metally i splavy; trudy... (Rare Metals and Alloys; Transactions of the First All-Union Conference on Rare-Metal Alloys) Moscow, Metallurgizdat, 1960. 436 p. 3,150 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Institut metallurgii; USSR Komissiya po redkim metallam pri nauchno-tekhnicheskom komitete.

Ed.: I.I. Shapovalov; Ed. of Publishing House: O.M. Kamayeva; Tech. Ed.: P.G. Islent'yeva.

PURPOSE: This collection of articles is intended for metallurgical engineers, physicists, and workers in the machine-building and radio-engineering industries. It may also be used by students of schools of higher education.

COVERAGE: The collection contains technical papers which were presented and discussed at the First All-Union Conference on Rare-Metal Alloys, held in the Institute of Metallurgy, Academy of Sciences USSR in November 1957. Results of investigations of rare-metal alloys, titanium, and copper-base alloys with additions of rare metals are presented and discussed along with investigations of rhenium, vanadium, niobium, and their alloys. The effect of rare-earth metals on properties of magnesium alloys and steels is analyzed. The uses of rhenium as a dehydrating catalyst, electroplating material, and material suitable for making plugs for automobile electrical systems are discussed. Also, the effect of the addition of certain elements on the properties of heat-resistant steel is examined and alloys with special physical properties (particularly semiconductive alloys) are discussed. No personalities are mentioned. Soviet and non-Soviet references accompany some of the articles.

PART II. TITANIUM, AND COPPER-BASE ALLOYS WITH RARE-METAL ADDITIONS

Rare Metals (Cont.) SOV/4164

Iorr, I.P. Study of the Effect of Rare-Earth Elements on Physicomechanical Properties of Chromium-Nickel-Molyodenum Steel 283

Yarbol'skaya, Ye.D., and A.Ye. Khlebnikov. Effect of Cerium Additions on Properties of Chromium-Nickel-Molybdenum Steel Used for Shaped Castings 303

Semenova, L.A. Rare Elements as Alloying Additions to High and Low Heat-Resistant Steels 314

Livshits, G.L., and A.A. Bochebina. Effect of Rare-Earth Elements on Certain Properties of Constructional Steel 325

Lenskaya, K.A., and K.F. Gorbalova. Effect of Small Additions of Cerium, Zirconium, Boron, Barium, and Calcium on Properties of Heat-Resistant Steels 333

Livshits, G.L., and G.A. Torpanova. Effect of Zirconium on Properties of Steel 343

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Livshits, G.L.

Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii

Spetsial'nyye stali i splavy (Special Steels and Alloys) Moscow, Metallurgizdat, 1960. 488 p. (Series: Its: Sbornik trudov, vyp. 17) Errata slip inserted. 4,000 copies printed.

Sponsoring Agencies: Institut kachestvennykh staley; Gosudarstvennyy planovyy komitet Soveta Ministrov SSSR; and Glavnoye upravleniye nauchno-issledovatel'skikh i proyektnykh organizatsiy.

Ed.: M.V. Pridantsev; Ed. of Publishing House: A L. Ozeretskaya; Tech. Ed.: V.V. Mikhaylova.

PURPOSE: This book is intended for engineering and research personnel in the metallurgical and machine-building industries.

COVERAGE: This book contains papers on the physical properties of special industrial steels and alloys. Individual papers treat: the problem of flake formation in steels and preventive measures, the effect of alloying additions and heat treatment on the structure and properties of steel, steel corrosion and preventive measures, and the properties of chromium-nickel alloys. There are 120 references: 87 Soviet, 22 English, 9 German, and 2 French.

Pridantsev, M.V. [Professor, Doctor of Technical Sciences], and K.A. Lanskaya [Candidate of Technical Sciences]. The Effect of Carbon on Heat-Resisting Properties of Low-Alloy Boiler Steels 80

Pridantsev, M.V., and K.A. Lanskaya. New Steel Without Molybdenum for Cracking Plants 86

Livshits, G.L., and G.A. Torpanova [Candidates of Technical Sciences]. Effect of Niobium on the Propert of Constructional Steel 99

Livshits, G L., and G.A. Torpanova. New Types of Constructional Steel 103

Ivanov, A.G. [Candidate of Technical Sciences]. The Study of High-Speed Cobalt Steel 107

Petrenko, A.G. [Engineer]. Properties of Cold Transformer Grade Electrical Sheets 138

Nefedov, A.A. [Engineer]. Cold Rolled Dynamo Grade Electrical Sheets 154

Babakov, A.A. [Candidate of Technical Sciences], and T.A. Zhadan [Engineer]. Means of Increasing the Plasticity of Kh23 Steel 163

Babakov, A.A., and D.G. Tufanov [Engineer]. Pitting Corrosion of Chromium Stainless Steels 184

Babakov, A.A., and Ye.N. Kareva. Stabilizing Annealing and Its Effect on Corrosion Resistance of 1Kh18N9T Steel 204

Babakov, A.A., D.G. Tufanov, and A.A. Sabinin [Engineer]. Sea-Water Corrosion of Steels 225

Talov, N.P. [Engineer]. Scarce Austenitic High-Strength Steels 247

Zotova, Ye.V. [Engineer]. On the Tendency of Chromium-Nickel-Molybdenum-Copper Steels Towards Intercrystalline Corrosion 295

Babakov, A.A., and D.G. Tufanov. Mine-Water Corrosion of Steels 311

Babakov, A.A., and Ye.V. Zotova [Engineer]. Corrosion of Steel in Industrial Low Nitrous Sulphuric Acid [illegible]

Chizhikov, Yu.M. [Candidate of Technical Sciences]. Properties and Characteristic Features of Special Alloys With High Nickel and Molybdenum Content [illegible]

Pridantsev, M.V., and A.V. Merlina [Engineer]. Effect of Barium and Calcium on Service Life of Chromium-Nickel Alloys [illegible]

Merlina, A.V. [Engineer]. Effect of Silicon and [illegible] on [illegible] and [illegible] Electrical Resistance Alloys ([illegible] commercial grade) [illegible]

Pridantsev, M.V., and A.V. Merlina. Chromium-Nickel [illegible] Electrical Resistance Alloys [illegible]

Pridantsev, M.Ye., and D.A. Litvinenko [illegible]. Effect of [illegible] Chromium-Nickel Austenitic Steels [illegible]

LIVSHITS, G.L., kand.tekhn.nauk; TORPANOVA, G.A., kand.tekhn.nauk

Effect of niobium on the properties of structural steel. Sbor. trud. TSNIICHM no.17:99-102 '60. (MIRA 13:10)
(Steel, Structural)

LIVSHITS, G.L., kand.tekhn.nauk; TORPANOVA, G.A., kand.tekhn.nauk

New types of structural steel. Sbor. trud. TSNIICHM no.17:103-106 '60. (MIRA 13:10)

(Steel, Structural)

S/133/61/000/001/013/016
A054/A033

18.1111. 1416, 1496, 1045

AUTHORS: Uzhik, G.V., Gal'perin, M. Ya., Koshelev, P.F., Livshits, G. L., and Terent'yeva, Ya. K.

TITLE: The Mechanical Properties of Low-alloy Steels (Plates)

PERIODICAL: Stal', 1961, No. 1, pp. 68 - 73

TEXT: The application of low-alloy high-strength steels instead of the standard Ст.3сп (St.3sp) and Ст.3кп (St.3kp) carbon steels makes it possible to reduce the weight of the structures by about 15 - 20%. To determinate the mechanical properties of these types of steels at low temperatures (-70°, -196°C) tests were carried out with the 19Г (19G); 09Г2 (09G2); 14Г2 (14G2); 15ГС (15GS 12ХГН (12KhGN) grade steels produced by the Al'chevskiy metallurgicheskiy zavod (Al'chev Metallurgical Plant), and the "Krasnyy Oktyabr" Plant, having the following chemical composition:

Table 1:

1 - chemical composition of investigated melts

2 - steel grade (Number of melts)

3 - plate thickness, mm

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The Mechanical Properties of Low-alloy Steels (Plates)

① Химический состав исследованных плавок, %

② Марка стали (номер плавки)	③ Толщина листа мм	C	Si	Mn	Ni	Cr	Cu	P	S	Al	Ti
19Г (4516)	9	0,16	0,27	0.89	—	—	0,020	0,035	0,019	—	—
12ХГН (2507)	12	0,15	0,22	1.22	1,04	0,36	0,07	0,027	0,030	0,03	0,03
14Г2 (1585)	20	0,14	0,27	1,38	0,14	0,26	0,15	0,037	0,020	—	—
14Г2 (3114)	20	0,18	0,33	1,62	0,12	0,21	0,13	0,034	0,023	—	—
15ГС (3184)	20	0,12	0,55	1,22	0,11	0,16	0,11	0,032	0,018	—	—
15ГС (3186)	20	0,16	0,72	1,32	0,17	0,29	0,14	0,030	0,016	—	—
09Г2	11	0,11	0,35	1,59	0,05	Следы TRACES	0,07	0,012	0,032	0,03	Следы

The steels were tested for tensile strength in the temperature range between +20° and -196°C, for notch impact strength and static bending, (+20°, -70°C), moreover for fatigue, (flat specimens bent in one plane, at +20°C, cylindrical specimens with bending and torsion). The tensile strenth tests were carried out on a 30 -ton multipurpose hydraulic test machine, in which the speed of the upper grip is 0.8 mm/min, the lower grip being stationary; the coolant used up to -70°C was ethyl alcohol, and up to -196°C liquid N. Prior to immersion each specimen was held at the test-temperature for 30 minutes. The notch impact strength tests were

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The Mechanical Properties of Low-alloy Steels (Plates) A054/A033

made with 10x10x55 mm samples with Mesnager notches. An МК-30 (MK-30) type drop test machine was employed, as prescribed by ГОСТ (GOST 1524-42). For static bending the 30-ton multipurpose test machine was also used; the bending was plotted (scale 24:1) by a special device. Fatigue tests at room temperature with flat specimens were carried out with the МУК (MUK)-100 type machine (for plain bending in one plane with a load frequency of 1500/min) while cylindrical samples were tested for the fatigue on НУ (NU) type machines (3000 loadings/min). Samples of various thickness, with polished and unground surfaces, with and without notches were studied. Strength and ductility: The relationship between strength, ductility and temperature for the various steel grades is shown in table 2, while figure 1 represents the dependence of the $\frac{\sigma_{0.2t}}{\sigma_{0.2}}$ (a) and $\frac{\sigma_{Bt}}{\sigma_B}$ (b) ratios on temperature. The strength limit of the tested steels increases approximately in the same way to -70°C, but increases intensively mainly in the 19G type steel at -196°C. The transition of the material from the plastic into the brittle condition is characterized by the gradual change of the differences ($\sigma_B - \sigma_{0.2}$) and ($S_K - \sigma_{0.2}$) under the effect of the temperature reduction, (Fig. 2). The smaller the difference the nearer the material is to brittleness. At -196°C the plasticity of 19G, 12KhGN, 14G2 and 15GS steels decreases considerably, mainly that of the 14G2 type. Elongation per unit length and la-

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teral compression are characteristic for the metal with regard to change in ductility and its ability to maintain ductility even at low temperatures, which eliminates the risk of brittle fracture (mainly under dynamic load). These properties do not change in 19G and 12KhGN grade steels and only slightly in 14G2 and 15GS. The most sudden decrease in notch impact strength at temperatures between +20°C and -70°C could be observed in 14G2 and 15GS ($a_k < 1$ kgm/sq cm), most probably due to the heat condition of rolling. The smallest drop in this property ($a_k = 2.6$ kgm/sq cm) was found for 09G2 steel. The trend to brittle fracture was tested by brittle loading (Fig. 4). The diagram plotted for prismatic samples with Mesnager notches proves that the highest resistance against brittle fracture up to -70°C is shown by 09G2 steel. 12KhGN is not highly resistant against brittle failure at -70°C, 14G2 loses its toughness already at -30°C, 15GS also tends to produce elastic-plastic deformations at all temperatures. Table 3 clearly shows that 14G2 has the strongest trend to brittle failure, between +20° and -70°C (due to a higher carbon content), while the highest degree of failure resistance can be found in 09G2. In the fatigue tests the results were affected by the surface of the samples. In rough flat samples of 12KhGN steel the fatigue limit is 31.8% lower than in samples having a smooth surface. Polished cylindrical samples have a higher fatigue limit than polished flat samples. The highest fatigue limit

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The Mechanical Properties of Low-alloy Steels (Plates)

was found in 15GS steel (melt 3186), while at room temperature there was hardly any difference in fatique limit between the grades 14G2, 15GS and 19G, both for polished and notched surfaces. Notched samples (with stress concentration on the surface) have the highest fatigue limit when made of 19G steel, (Fig. 7). There are 7 figures, 4 tables and 2 references: 1 Soviet, 1 Non-Soviet.

Table 2:
Indices of mechanical properties of low-alloy steels for tensile tests
1 - steel grade; 2 - test temperature

Показатели механических свойств низколегированных сталей при испытаниях на растяжение

① Марка стали ([C], %)	② Температура испытания °C	$\sigma_{0,2}$ кг/мм^2 kg/mm^2	σ_B кг/мм^2 kg/mm^2	s_K кг/мм^2 kg/mm^2	δ_5 %	ψ %
19Г (19G)	+ 20	34,9—35,9	52,1—53,3	87,8—99,2	27,7—28,6	47,8—51,2
	− 20	38,8—39,0	57,5—58,0	96,0—98,8	29,5—33,6	49,2—51,0
	− 40	41,4—41,8	59,0—59,3	96,9—100,8	29,8—31,5	48,9—50,8
	− 70	44,0—44,3	61,9—62,4	100,4—103,3	30,0—32,5	47,3—48,6
	−196	88,5—88,8	93,9—94,2	118,2—118,9	20,6—22,2	21,5—22,5
	+ 20	44,5—45,9	63,2—63,5	93,1—94,0	20,2—22,3	40,3—41,2
	− 20	46,5—47,4	67,2—67,3	98,9—99,9	22,3—24,3	39,1—39,5

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X

KANEVSKIY, V.P.; LEVIN, S.T.; LIBERMAN, M.L.; LIVSHITS, G.L.; RAYVICH, I.D.; SHKITIN, V.I.

Concentration of slurries in a centrifugal force field. Koks. i khim. no. 3:15-18 '61. (MIRA 14:4)

1. Dnepropetrovskiy gornyy institut (for Kanevskiy. Levin, Liberman).
2. Nikitovskaya TSentral'naya ugleobogatitel'naya fabrika (for Livshits, Rayvich, Shkitin).

(Coal preparation)

UZHIK, G.V.; GAL'PERIN, M.Ya.; KOSHELEV, P.F.; LIVSHITS, G.L.;
TERENT'YEVA, Ya.K.

Mechanical properties of low-alloy steel (rolled sheet material).
Stal' 21 no. 1:68-73 Ja '61. (MIRA 14:1)
(Sheet steel--Testing)

MESHCHERINOVA, O.N., kand.tekhn.nauk; TRIFONOVA, T.N., inzh.; TORPANOVA, G.A., kand.tekhn.nauk; SMIRNOV, Ye.V., inzh.; BABAKOV, A.A., kand.tekhn.nauk; KAREVA, Ye.N., inzh.; ZHADAN, T.A., inzh.; TALOV, N.P., inzh.; TSYPKINA, Ye.D., kand.tekhn.nauk; DORONIN, V.M., inzh.; DAVYDOVA, L.N., inzh.; PRIDANTSEV, M.V., prof., doktor tekhn.nauk, red.; LIVSHITS, G.L., kand.tekhn.nauk, red.; BERLIN, Ye.N., red.izd-va; MIKHAYLOVA, V.V., tekhn.red.

[Steels with low nickel content; a handbook] Stali s ponizhennym soderzhaniem nikela; spravochnik. Pod red. M.V.Pridantseva i G.L.Livshitsa. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 200 p. (MIRA 14:12)

1. Direktor instituta kachestvennykh staley TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii im. I.P.Bardina (for Pridantsev).

(Nickel steel)

LIVSHITS, G.L., inzh.; RAYVICH, I.D., inzh.; BARISHPOLETS, V.T., kand.tekhn. nauk; KORYAKOV-SAVOYSKIY, B.A., kand.tekhn.nauk

Increasing the number of flotation cells in the existing industrial areas of coal preparation plants. Ugol' Ukr. 5 no.5:19-21 My '61. (MIRA 14:5)

1. Nikitovskaya tsentral'naya ugleobogatitel'naya fabrika.
(Flotation) (Coal preparation plants)

LEYKIN, I.M.; LEBEDEV, Yu.I.; ANDREYEV, I.I.; BEDA, N.N.; Prinimali uchastiye: LIVSHITS, G.L.; TERENT'YEVA, Ya.K.; FILONOV, V.G.; GONCHAROV, I.A.; NAFTALOVICH, S.M.; KUPRIKOV, P.Z.; ABKINA, R.I.; ROSHCHINA, A.A.; LUPYAKOV, A.G.

Steel of the 18G2-grade. Sbor. trud TSNIICHM no.35:92-101 '63.
(MIRA 17:2)

MELIK-GAYKAZYAN, V.I.; BAYCHENKO, A.A.; VORONCHIKHINA, V.V.; LIVSHITS, G.L.; SOROKA, V.I.; RAYVICH, I.D.; KHARKHARDIN, P.P.

Emulsification of flotation oil reagents under industrial conditions and evaluation of the dispersion properties of the obtained emulsions. Koks i khim. no.3:9-13 '64. (MIRA 17:4)

1. Tomskiy politekhnicheskiy institut (for Voronchikhina).
2. Nikitovskaya ugleobogatitel'naya fabrika (for Rayvich).
3. Gorlovskiy koksokhimicheskiy zavod (for Kharkhardin).

SMIRNOVA, T.V.; IVANOVA, A.S.; ANDREYENKO, L.M.; ZIMSON, N.K.; DAVYDOVA, A.A.; LIVSHITS, G.M.

Familial outbreak of food poisoning. Gig.i san. 26 no.1:115-116 Ja '61. (MIRA 14:6)

1. Iz Dnepropetrovskogo instituta epidemiologii, mikrobiologii i gigiyeny i Dnepropetrovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.

(FOOD POISONING)

LIVSHITS, G.S.

Metastasis of cancer of the mammary gland to a tonsil. Vest.oto-rin. 18 no.5:117 S-O '56. (MIRA 9:11)

1. Iz Moskcvskogo gorodskogo onkologicheskogo dispansera.
(TONSILS--CANCER)

LIVSHITS, G.S.; SKURKOVICH, G.V.

Two cases of plasmocytic lesion of the otorhinolaryngological organs. Vest. otorin. 25 no.5:101-103 S-O '63. (MIRA 17:4)

1. Iz Gorodskoy onkologicheskoy bol'nitsy (vedushchiy onkolog - dotsent B.V.Milonov) i 3-y kafedry terapii (zav. - chlen-korrespondent AMN SSSR I.A.Kassirskiy) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

LIVSHITS, G.Sh.

LIVSHITS, G.Sh.: "The brilliance of a cloudless sky over a snow cover".
Alma-Ata, 1955. Geophysical Inst, Acad Sci USSR. (Dissertations for the
Degree of Candidate of Physicomathematical Sciences).

SO: Knizhnaya letopis' No 45, 5 November 1955. Moscow.

LIFSHITS, G.Sh.

Relation between the photocurrent and the exposure of photocells with a barrier layer. Izv. Astrofiz.Inst. AN Kazakh.SSR 1 no.1/2:227-231 '55. (MLRA 9:10)

(Photoelectric cells)

LIFSHITS, G.Sh.

Determining the atmospheric transparency coefficient on the basis of sky brightness in presence of a snow cover. Izv. Astrofiz.Inst. AN Kazakh.SSR 1 no.1/2:232-238 '55. (MLRA 9:10)

(Atmospheric transparency)

LIVSHITS, G.SH.

USSR/Physics of the Atmosphere - Atmospheric Optics, M-5

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36191

Author: Livshits, G. Sh.

Institution: None

Title: Determination of Corrections for the Reflection to the Tables of the Brightness of the Daytime Cloudless Sky

Original Periodical: Izv. Astrof. in-ta AN KazSSR, 1955, 2, 150-153

Abstract: A method is proposed for calculating the corrections for the reflection from a snow cover for the brightness tables of daylight cloudless sky, published by Pyaskovskaya-Fesenkova. The correction is calculated using the equation $\Delta B = E_c A(z, p)$ where E_c is the summary illumination of the underlying surface by scattered light, A the albedo of the underlying surface, and $\varphi(z,p)$ is a certain function of the zenith distance z and of the transparency coefficient p. It is shown that this function can be considered in practice as independent of p, and a table of values is given for variations of

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USSR/Physics of the Atmosphere - Atmospheric Optics, M-5

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36191

Abstract: $\varphi(z)$ from zero to 85°. Using this table and knowing E_c and A, it is possible to calculate ΔB from the equation indicated above.

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